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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/896,720

DATE: 10/12/2001  
TIME: 11:17:38

Input Set : A:\5853173u.app  
Output Set: N:\CRF3\10122001\I896720.raw

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3 <110> APPLICANT: SONG, WEN-YUAN
4      PI, LI-YA
6 <120> TITLE OF INVENTION: UBIQUITIN LIGASE
8 <130> FILE REFERENCE: 5853-173
10 <140> CURRENT APPLICATION NUMBER: 09/896,720
C--> 11 <141> CURRENT FILING DATE: 2001-09-24 01
13 <150> PRIOR APPLICATION NUMBER: 60/215,049
14 <151> PRIOR FILING DATE: 2000-06-29
16 <160> NUMBER OF SEQ ID NOS: 24
18 <170> SOFTWARE: PatentIn Ver. 2.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 1353
22 <212> TYPE: DNA
23 <213> ORGANISM: Oryza sativa
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27 cagctcgccg acctcgacgc cctggccgccc ctccctcgccg ccgacccttc cctcgctcgc 120
28 cgcgccaccc tctacgaccg cctctccgtc ctccacatcg cgcgcgccaa tggccgcattc 180
29 gaggtgctct ccatgttctt ggatcgccgg ggcgcgcggg acgcgggtgaa tcggcacaagg 240
30 cagacgcccgc tgatgctcgc ggccatgcac ggcaagatcg actgcgtgct caagctcctc 300
31 caggccqacq caaatatctt qatgttcqac tcgggtcacq cgaggacctg cttccaccac 360
32 gcggcgtact acggccacgt cgactgcctg caggccatcc tcgcgcgcgc gcagaccacg 420
33 cgggtggccg actcatgggg ttgcgtccgg ttcgtcaacg tcagggacga ccacggcgcc 480
34 actccgctgc atctcgccgc caggcagggg cggccgggt gcgtgcagggt gttgctggag 540
35 aacggcgcca ttgtgtcgcc tttgacagga tcataatggct tccctggaa cacgtcgctt 600
36 catttgctg ctcgtacgg gaacttggat tgcatacggaa agctgcttc ctggggagct 660
37 gatcggtctcc aaagggattc ggctgggaga attccctatt ctgttgcgt gaaacggaaac 720
38 catggagcat gtgcagcttt gctgaaccct acatcagcag agcccatggt gtggccatcc 780
39 ccacttaagt tcatcagtga gcttgaacca gaagctaagg ctctcctggaa agcagctctg 840
40 atggaagcca acaggaggag ggagaagaaa atcctgaatg gcacaaagta ctccctgcac 900
41 tcccttcgc cgggtgatga cagtgcgcgat gacgatgcatt gctcaggat gagcgacacg 960
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43 caaatgtgtg caccgtgcac gctggcactg tgctgtcaca acaaaccacca tccgacgcacc 1080
44 ctgacaccgc cctcacccgc ctgcgcattt tgccggggca gcatctcagc gctgggtgt 1140
45 gccccaaacaa ggtctgcttg tgatcctgac aagccgtcat ccctgcagct caccggaaag 1200
46 cggtcgcgtc gatctcacaa cctcagttag ggcagcagca gcttcaaagg gctacctcg 1260
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53 <212> TYPE: PRT
54 <213> ORGANISM: Oryza sativa
56 <220> FEATURE:
57 <221> NAME/KEY: MOD_RES
58 <222> LOCATION: (258)
59 <223> OTHER INFORMATION: Any amino acid
61 <400> SEQUENCE: 2

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62 Met Gly His Gly Val Ser Cys Ala Arg Thr Gly Asp Glu His Asp Phe  
 63 1 5 10 15  
 65 Phe Arg Ala Ala His Leu Gly Asp Leu Asp Ala Leu Ala Ala Leu Leu  
 66 20 25 30  
 68 Ala Ala Asp Pro Ser Leu Ala Arg Arg Ala Thr Leu Tyr Asp Arg Leu  
 69 35 40 45  
 71 Ser Val Leu His Ile Ala Ala Asn Gly Arg Ile Glu Val Leu Ser  
 72 50 55 60  
 74 Met Phe Leu Asp Arg Gly Ala Pro Pro Asp Ala Val Asn Arg His Lys  
 75 65 70 75 80  
 77 Gln Thr Pro Leu Met Leu Ala Ala Met His Gly Lys Ile Asp Cys Val  
 78 85 90 95  
 80 Leu Lys Leu Leu Gln Ala Asp Ala Asn Ile Leu Met Phe Asp Ser Val  
 81 100 105 110  
 83 His Ala Arg Thr Cys Leu His His Ala Ala Tyr Tyr Gly His Val Asp  
 84 115 120 125  
 86 Cys Leu Gln Ala Ile Leu Ala Ala Ala Gln Thr Thr Pro Val Ala Asp  
 87 130 135 140  
 89 Ser Trp Gly Phe Ala Arg Phe Val Asn Val Arg Asp Asp His Gly Ala  
 90 145 150 155 160  
 92 Thr Pro Leu His Leu Ala Ala Arg Gln Gly Arg Pro Gly Cys Val Gln  
 93 165 170 175  
 95 Val Leu Leu Glu Asn Gly Ala Ile Val Ser Ala Leu Thr Gly Ser Tyr  
 96 180 185 190  
 98 Gly Phe Pro Gly Ser Thr Ser Leu His Leu Ala Ala Arg Ser Gly Asn  
 99 195 200 205  
 101 Leu Asp Cys Ile Arg Lys Leu Leu Ala Trp Gly Ala Asp Arg Leu Gln  
 102 210 215 220  
 104 Arg Asp Ser Ala Gly Arg Ile Pro Tyr Ser Val Ala Leu Lys Arg Asn  
 105 225 230 235 240  
 107 His Gly Ala Cys Ala Ala Leu Leu Asn Pro Thr Ser Ala Glu Pro Met  
 108 245 250 255  
 W--> 110 Val Xaa Pro Ser Pro Leu Lys Phe Ile Ser Glu Leu Glu Pro Glu Ala  
 111 260 265 270  
 113 Lys Ala Leu Leu Glu Ala Ala Leu Met Glu Ala Asn Arg Glu Arg Glu  
 114 275 280 285  
 116 Lys Lys Ile Leu Asn Gly Thr Lys Tyr Ser Leu Pro Ser Pro Ser Pro  
 117 290 295 300  
 119 Gly Asp Asp Ser Ala Asp Asp Ala Cys Ser Glu Val Ser Asp Thr  
 120 305 310 315 320  
 122 Glu Leu Cys Cys Ile Cys Phe Asp Gln Ala Cys Thr Ile Glu Val Gln  
 123 325 330 335  
 125 Asp Cys Gly His Gln Met Cys Ala Pro Cys Thr Leu Ala Leu Cys Cys  
 126 340 345 350  
 128 His Asn Lys Pro Asn Pro Thr Thr Leu Thr Pro Pro Ser Pro Ala Cys  
 129 355 360 365  
 131 Pro Phe Cys Arg Gly Ser Ile Ser Arg Leu Val Val Ala Gln Thr Arg  
 132 370 375 380  
 134 Ser Ala Cys Asp Pro Asp Lys Pro Ser Ser Leu Gln Leu Thr Arg Lys

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Input Set : A:\5853173u.app  
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135 385           390           395           400
137 Arg Ser Arg Arg Ser His Asn Leu Ser Glu Gly Ser Ser Ser Phe Lys
138           405           410           415
140 Gly Leu Pro Ser Ala Met Gly Ser Phe Ser Lys Leu Gly Arg Gly Ser
141           420           425           430
143 Ser Arg Met Ala Asp Ser Asp Ser Ser Asn Leu Asp Lys Pro Glu His
144           435           440           445

146 Asp Leu
147   450
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153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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163 <211> LENGTH: 31
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165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
170 <400> SEQUENCE: 4
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175 <211> LENGTH: 35
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
182 <400> SEQUENCE: 5
183 ggatccgtcg accacaagag aactaaaaag ggagc          35
186 <210> SEQ ID NO: 6
187 <211> LENGTH: 42
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
194 <400> SEQUENCE: 6
195 ggatccgtcg accccgggca gaagtgcgtc tgaagtgtgg ca          42
198 <210> SEQ ID NO: 7
199 <211> LENGTH: 30
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
206 <400> SEQUENCE: 7
207 ggatccatga tatccatggg tcacgggtgc          30

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Input Set : A:\5853173u.app  
Output Set: N:\CRF3\10122001\I896720.raw

210 <210> SEQ ID NO: 8  
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213 <213> ORGANISM: Artificial Sequence  
215 <220> FEATURE:  
216 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
218 <400> SEQUENCE: 8  
219 cgggatccga tatacgatgc agcaaagctc c 31  
222 <210> SEQ ID NO: 9  
223 <211> LENGTH: 30  
224 <212> TYPE: DNA  
225 <213> ORGANISM: Artificial Sequence  
227 <220> FEATURE:  
228 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
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235 <211> LENGTH: 24  
236 <212> TYPE: DNA  
237 <213> ORGANISM: Artificial Sequence  
239 <220> FEATURE:  
240 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
242 <400> SEQUENCE: 10  
243 cagaagtgcga tctgaagtgtt ggca 24  
246 <210> SEQ ID NO: 11  
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248 <212> TYPE: DNA  
249 <213> ORGANISM: Artificial Sequence  
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258 <210> SEQ ID NO: 12  
259 <211> LENGTH: 30  
260 <212> TYPE: DNA  
261 <213> ORGANISM: Artificial Sequence  
263 <220> FEATURE:  
264 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
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271 <211> LENGTH: 28  
272 <212> TYPE: DNA  
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275 <220> FEATURE:  
276 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
278 <400> SEQUENCE: 13  
279 gaattctcta gaccggggca gcatctca 28  
282 <210> SEQ ID NO: 14

## RAW SEQUENCE LISTING

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Input Set : A:\5853173u.app  
Output Set: N:\CRF3\10122001\I896720.raw

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288 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
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295 <211> LENGTH: 28  
296 <212> TYPE: DNA  
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308 <212> TYPE: DNA  
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330 <210> SEQ ID NO: 18  
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345 <213> ORGANISM: Artificial Sequence  
347 <220> FEATURE:  
348 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
350 <400> SEQUENCE: 19  
351 gcgcgtgaaac ggaaccatgg a 21  
354 <210> SEQ ID NO: 20  
355 <211> LENGTH: 22

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/896,720

DATE: 10/12/2001

TIME: 11:17:39

Input Set : A:\5853173u.app

Output Set: N:\CRF3\10122001\I896720.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2